INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/24351

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : G01N 33/48 US CL : 702/19						
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 702/19; 211/41.12						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
C. DOCI	IMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap					
х	US 2002/0169560 A1 (HYTOPOULOS et al.) 14 No	vember 2002 (14.11.2002), see	1, 3, 5, 7			
Y	especially Detailed Description		2, 4, 6, 8			
Y	US 2002/0178150 A1 (HYTOPOULOS et al.) 28 November 2002 (28.11.2002), see especially Detailed Description.		1-8			
Y	US 6,496,834 B1 (CEREGHINI et al.) 17 December Detailed Description of the Preferred Embodiment.					
Y	YEUNG et al. Model-based clustering and data transformations for gene expression data. Bioinformatics. 2001, Volume 17, Number 10, pages 977-987, see especially Model-Based Cluster Approach.					
Y	MURO et al. Identification of expressed genes linked carcinoma by parametric clustering of quantitative ex 2003, Volume 4, R21, pages R21-R21.10, especially	pression data. Genome Biology	ectal 1-8			
Further	documents are listed in the continuation of Box C.	See patent family an				
	pecial categories of cited documents: t defining the general state of the art which is not considered to be	"T" later document published date and not in conflict w principle or theory under	after the international filing date or priority ith the application but cited to understand the lying the invention			
"E" earlier ap	alar relevance splication or patent published on or after the international filing date	"X" document of particular re considered novel or cam when the document is tak	elevance; the claimed invention cannot be to be considered to involve an inventive step aren alone			
establish specified		considered to involve an combined with one or ma	elevance; the claimed invention cannot be inventive step when the document is one other such documents, such combination			
"O" documen	referring to an oral disclosure, use, exhibition or other means	being obvious to a person				
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the				
Date of the actual completion of the international search 03 February 2005 (03.02.2005)		Date of mailing of the interna 16 MAR 2005	nonal search report			
Name and mailing address of the ISA/US		Authorized officer	Maria / latito			
Mail Stop PCT, Atm: ISA/US Commissioner for Patents		Carolyn Smith				
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230		Telephone No. 571-272-1600)			

Form PCT/ISA/210 (second sheet) (January 2004)

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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Y, P	Citation of document, with indication, where appropriate, of the relevant passages OUYANG et al. Gaussian mixture clustering and imputation of microarray data. Bioinformatics. 2004, Volume 20, Number 6, pages 917-923, see especially Methods and Data.	Relevant to claim No.		

1	International application No.
INTERNATIONAL SEARCH REPORT	PCT/US04/24351
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Continuation of B. FIELDS SEARCHED Item 3:	
WEST, PUBMED, EMBASE, BIOSIS, SCISEARCH searching terms: missing, valgorithm, estimate, partition, classification, maximize, converge, computer, meth	value, microarray, cluster, Gaussian, GMCimpute,
algorithm, estimate, partition, classification, maximize, converge, computer, meth	od, program, software